

FIG. 1

| | | | | |
|---|---|-----|----|-----|
| 1 | ATG AGC TCT AAG TAC CCG CGG TCT GTC CGG CGC TGC CTG CCC CTC TGG GCC CTA ACA CTG | 20 | 40 | 60 |
| Met Ser Ser Lys Tyr Pro Arg Ser Val Arg Arg Cys Leu Pro Leu Trp Ala Leu Thr Leu | | | | |
| 1 | | 10 | | 20 |
| GAA GCA GCT CTC ATT CTC CTC TTC TAT TTT ACC CAC TAT GAC GCT TCC TTA GAG GAT | 80 | 100 | | 120 |
| Glu Ala Ala Leu Ile Leu Leu Phe Tyr Phe Phe Thr His Tyr Asp Ala Ser Leu Glu Asp | | | | |
| 30 | | | | 40 |
| CAA AAG GGG CTC GTG GCA TCC TAT CAA GTT GGC CAA GAT CTG ACC GTG ATG GCG GCC ATT | 140 | 160 | | 180 |
| Gln Lys Gly Leu Val Ala Ser Tyr Gln Val Gly Gln Asp Leu Thr Val Met Ala Ala Ile | | | | |
| 50 | | | | 60 |
| GGC TTG GGC TTC CTC ACC TCG AGT TTC CGG AGA CAC AGC TGG AGC AGT GTG GCC TTC AAC | 200 | 220 | | 240 |
| Gly Leu Gly Phe Leu Thr Ser Ser Phe Arg Arg His Ser Trp Ser Ser Val Ala Phe Asn | | | | |
| 70 | | | | 80 |
| CTC TTC ATG CTG GCG CTT GGT GTG CAG TGG GCA ATC CTG CTG GAC GGC TTC CTG AGC CAG | 260 | 280 | | 300 |
| Leu Phe Met Leu Ala Leu Gly Val Gln Trp Ala Ile Leu Leu Asp Gly Phe Leu Ser Gln | | | | |
| 90 | | | | 100 |
| TTC CCT TCT GGG AAG GTG GTC ATC ACA CTG TTC AGT ATT CGG CTG GCC ACC ATG AGT GCT | 320 | 340 | | 360 |
| Phe Pro Ser Gly Lys Val Val Ile Thr Leu Phe Ser Ile Arg Leu Ala Thr Met Ser Ala | | | | |
| 110 | | | | 120 |
| TTG TCG GTG CTG ATC TCA GTG GAT GCT GTC TTC GGG AAG GTC AAC TTG GCG CAG TTG GTG | 380 | 400 | | 420 |
| Leu Ser Val Leu Ile Ser Val Asp Ala Val Leu Gly Lys Val Asn Leu Ala Gln Leu Val | | | | |
| 130 | | | | 140 |

FIG. 2A

440 GTG ATG GTG CTG GTG GAG GTG ACA GCT TTA GGC AAC CTG AGG ATG GTC ATC AGT AAT ATC 420
Val Met Val Leu Val Glu Val Thr Ala Leu Gly Asn Leu Arg Met Val Ile Ser Asn Ile 160

500 TTC AAC ACA GAC TAC CAC ATG AAC ATG ATG CAC ATC TAC GTG TTC GCA GCC TAT TTT GGG 540
Phe Asn Thr Asp Tyr His Met Asn Met Met His Ile Tyr Val Phe Ala Ala Tyr Phe Gly 180

560 CTG TCT GTG GCC TGG TGC CTG CCA AAG CCT CTA CCC GAG GGA ACG GAG GAT AAA GAT CAG 600
Leu Ser Val Ala Trp Cys Leu Pro Lys Pro Leu Pro Glu Gly Thr Glu Asp Lys Asp Gln 200

620 ACA GCA ACG ATA CCC AGT TTG TCT GCC ATG CTG GGC GCC CTC TTC TTG TGG ATG TTC TGG 660
Thr Ala Thr Ile Pro Ser Leu Ser Ala Met Leu Gly Ala Leu Phe Leu Trp Met Phe Trp 220

680 CCA AGT TTC AAC TCT GCT CTG CTG AGA AGT CCA ATC GAA AGG AAG AAT GCC GTG TTC AAC 720
Pro Ser Phe Asn Ser Ala Leu Leu Arg Ser Pro Ile Glu Arg Lys Asn Ala Val Phe Asn 240

740 ACC TAC TAT GCT GTA GCA GTC AGC GTG GTG ACA GCC ATC TCA GGG TCA TCC TTG GCT CAC 780
Thr Tyr Tyr Ala Val Ala Val Ser Val Val Thr Ala Ile Ser Gly Ser Ser Leu Ala His 260

800 CCC CAA GGG AAG ATC AGC AAG ACT TAT GTG CAC AGT GCG GTG TTG GCA GGA GGC GTG GCT 840
Pro Gln Gly Lys Ile Ser Lys Thr Tyr Val His Ser Ala Val Leu Ala Gly Gly Val Ala 280

FIG. 2B

| | | |
|---|------|-------|
| 860 | 880 | 900 |
| GTG GGT ACC TCG TGT CAC CTG ATC CCT TCT CCG TGG TGG CTT GCC ATG GTG CTG GGT CTT GTG | | |
| Val Gly Thr Ser Cys His Leu Ile Pro Ser Pro Trp Leu Ala Met Val Leu Gly Leu Val | | 3 0 0 |
| 290 | | |
| 920 | 940 | 960 |
| GCT GGG CTG ATC TCC GTC GGG GGA GCC AAG TAC CTG CCG GGG TGT TGT AAC CGA GTG CTG | | |
| Ala Gly Leu Ile Ser Val Gly Gly Ala Lys Tyr Leu Pro Gly Cys Cys Asn Arg Val Leu | | 3 2 0 |
| 310 | | |
| 980 | 1000 | 1020 |
| GGG ATT CCC CAC AGC TCC ATC ATG GGC TAC AAC TTC AGC TTG CTG GGT CTG CTT GGA GAG | | |
| Gly Ile Pro His Ser Ser Ile Met Gly Tyr Asn Phe Ser Leu Leu Gly Leu Gly Gly | | 3 4 0 |
| 330 | | |
| 1040 | 1060 | 1080 |
| ATC ATC TAC ATT GTG CTG CTG GTG CTT GAT ACC GTC GGA GCC GGC AAT GGC ATG ATT GGC | | |
| Ile Ile Tyr Ile Val Leu Leu Val Leu Asp Thr Val Gly Ala Gly Asn Gly Met Ile Gly | | 3 6 0 |
| 350 | | |
| 1100 | 1120 | 1140 |
| TTC CAG GTC CTC CTC AGC ATT GGG GAA CTC AGC TTG GCC ATC GTG ATA GCT CTC ACG TCT | | |
| Phe Gln Val Leu Leu Ser Ile Gly Gly Leu Ser Leu Ala Ile Val Ile Ala Leu Thr Ser | | 3 8 0 |
| 370 | | |
| 1160 | 1180 | 1200 |
| GGT CTC CTG ACA GGT TTG CTC CTA AAT CTT AAA ATA TGG AAA GCA CCT CAT GAG GCT AAA | | |
| Gly Leu Leu Thr Gly Leu Leu Leu Asn Leu Lys Ile Trp Lys Ala Pro His Glu Ala Lys | | 4 0 0 |
| 390 | | |
| 1220 | 1240 | 1251 |
| TAT TTT GAT GAC CAA GTT TTC TGG AAG TTT CCT CAT TTG GCT GTT GGA TTT TAA | | |
| Tyr Phe Asp Asp Gln Val Phe Trp Lys Phe Pro His Leu Ala Val Gly Phe *** | | 4 1 7 |
| 410 | | |

FIG. 2C

| | | | | | | |
|------|-----------------|------------|---------------|-------------|-------------|------|
| | 10 | 20 | 30 | 40 | 50 | |
| RHCE | AGCCACTTCA | ACGTTTTGAG | TCTCAGTGGC | CTCATCTGTA | AAGTGAGAA | 650 |
| RHD | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | |
| | | | | | G | |
| RHCE | TAAGAGATGG | TGCATGTAAA | GTGCTTAACG | GGGAGTAAAT | GGTAGGCCAAA | 700 |
| RHD | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | |
| RHCE | CATTAGCTGC | TGCTATTAGT | ACAGAGAGAC | AATGGTGTGT | GTGAGTCTTG | 750 |
| RHD | - - - - - | - - - - - | - A - - - - - | G - - - - - | - - - - - | |
| RHCE | TGGGCAGAGA | TGGGTGAGAG | GGGAGACAAA | ACAAGTTCTC | ATGATGATGG | 800 |
| RHD | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | |
| RHCE | GGGCAGGGG | TCCAGCTGGT | GGTGTCGGAG | GGAAGTCTGG | ACAGACCAGT | 850 |
| RHD | - - - A - - - C | - - - - - | - - - - - | - - - - - | - - - - - | |
| | I | * | * | * | * | |
| RHCE | GGTGGGGCTC | GGGTGGGAGG | CACTGGGGGG | GCTGGAGTGG | AAAGAAATGTG | 900 |
| RHD | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | |
| | * | * | * | * | * | |
| RHCE | GCCACAGATG | ACAGCTTCAC | AGCAGAAATC | AGTGCTAAGA | GGAAGTGAGT | 950 |
| RHD | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | |
| | * | * | * | * | * | |
| RHCE | GGCCATGAGT | TCCATGGTGA | CAGAAAGTCT | AAGACACCTA | GCAAGGCAGG | 1000 |
| RHD | - - - - - | - - - - - | - - - - - | - - - - - | - - - - - | |
| | * | * | * | * | * | |
| | | | | C | I | |

FIG. 3A



| | | | | | | |
|------|-------------|-------------------|-------------------|-------------------|-------------------|------|
| RHCE | AGTGGGTGTC | AGCTCAGGGA | AGCTCAGAGG | CTAAACCTAG | GTGAGAGCTG | 1050 |
| RHD | - - - - - | - A - - - - - | - - C - - - - | - - - - T - - - - | - - - - - - - - - | |
| RHCE | AGGGGTGTCAG | ATAAGAGCAA | GGCAAGGCTC | CGGTTCTGGA | GTAGTGAAGG | 1100 |
| RHD | - - - - - | - - - - - | - - - - - | - - - - - | - C - - - - - | |
| RHCE | ACATAGCAGA | GCTATAACCC | AGGAACAAGG | CCCAGCTTAT | TGGAACCTGGG | 1150 |
| RHD | - - - - - | - - - - G - - - - | - - - - - | - - - - - | - - A - - - - - | |
| RHCE | ACCAGTCACA | CAGGGTGGCA | CAGGCACCAA | GTAGCCAATA | ATAATAATAA | 1200 |
| RHD | C - - - - | - - - - - | - - - - - | - - - - - | - - - - - | |
| RHCE | AAACAATAAC | AATGATTTAT | TGTCATTGGG | CATTTATTCA | TGTTCTATGC | 1250 |
| RHD | - - - - - | - - - - - G - | - - - - C - - - - | - - - - - | - - - - - | |
| RHCE | CAGACACTGG | ACTAAGAGCT | TTATATGTGG | AAACTCATTT | AATCCTTACA | 1300 |
| RHD | - - - - - | - G - - - - - | - - - - - | - - - - - | - - - - - | |

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FIG. 3B

1. The first step in the process is to identify the problem or issue that needs to be addressed. This involves gathering information and understanding the context of the problem.

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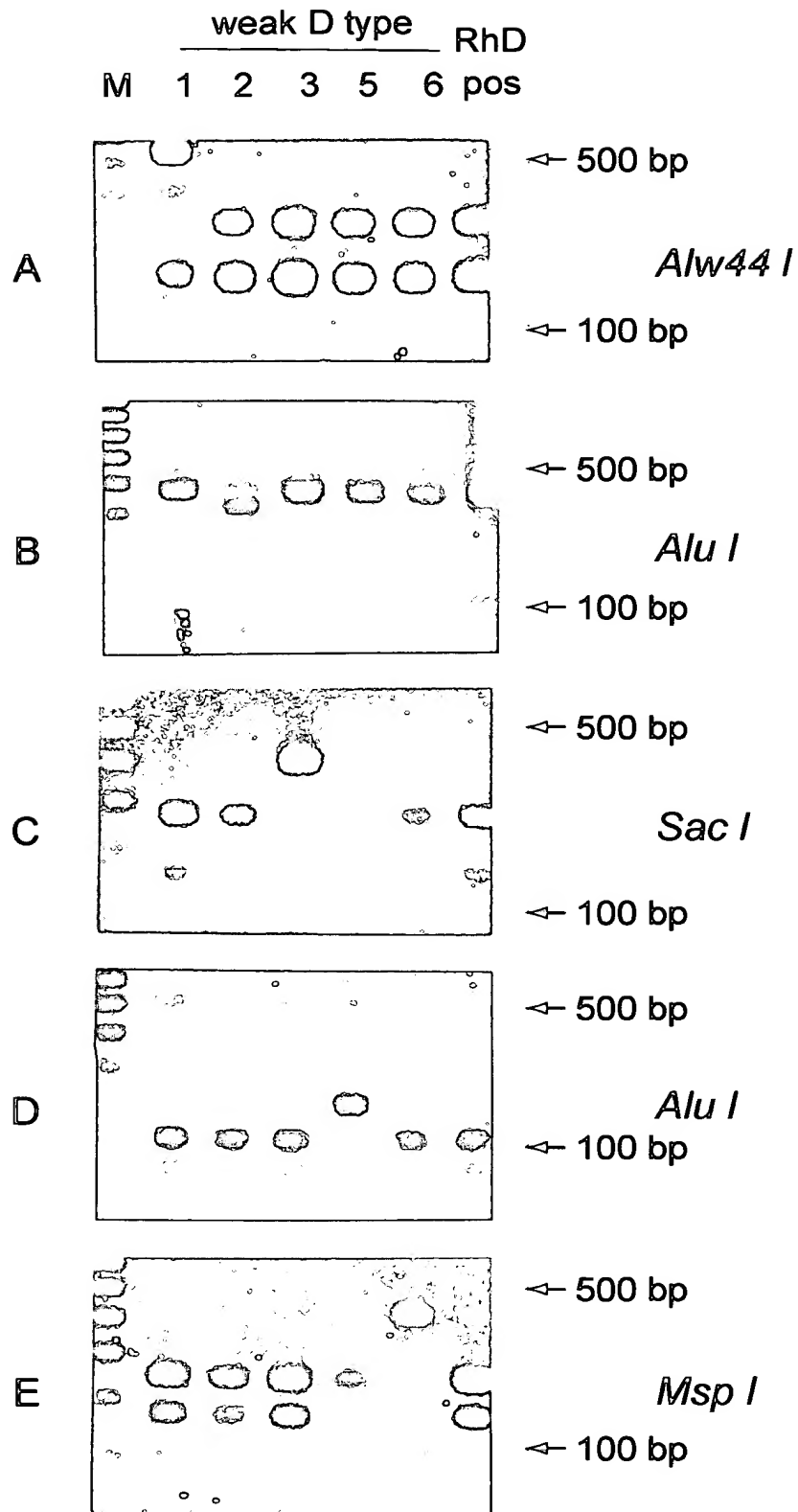


FIG. 4